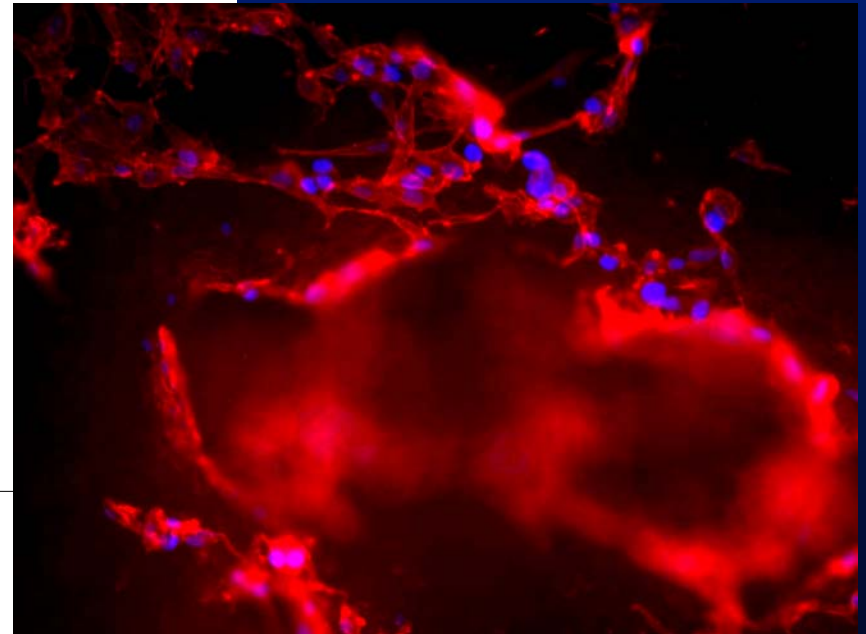
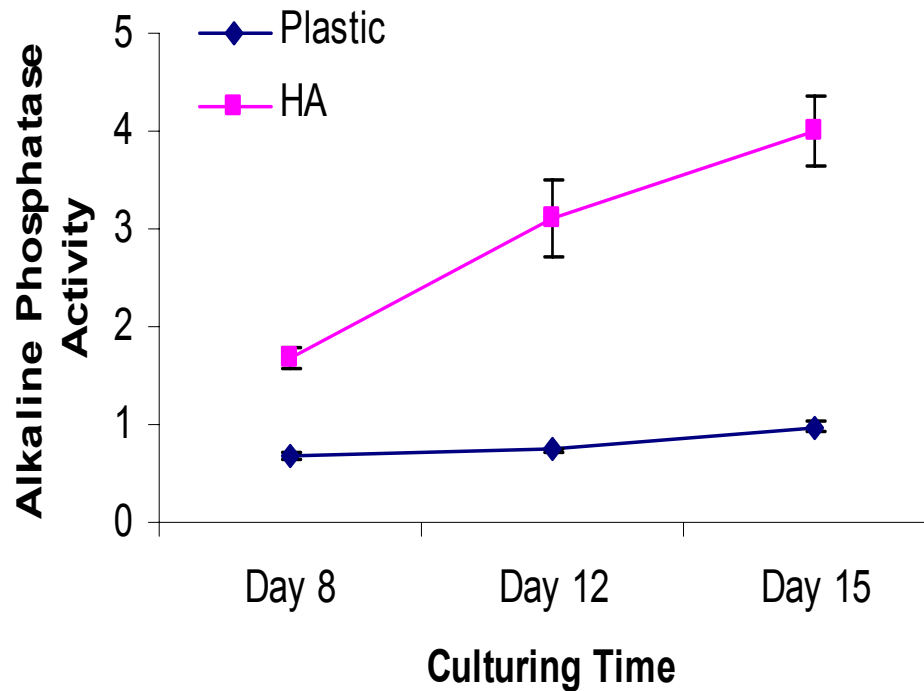


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The graph on the left illustrates that osteoblast differentiation occurs rapidly and maintains enhancement over time (as demonstrated by increased alkaline phosphatase - a marker of osteoblast differentiation) when osteoblasts are grown on hydroxyapatite (HA). We are currently determining the mechanism accounting for this effect.

The photo on the right illustrates a piece of tissue engineered calcium phosphate ceramic that has been stained to show the actin cytoskeleton structure (red) and the nuclei (blue) of bone cells on the ceramic scaffold (at a magnification of 200 times).